



US005282103A

**United States Patent** [19]

Hatch et al.

[11] **Patent Number:** 5,282,103[45] **Date of Patent:** Jan. 25, 1994

[54] **MAGNETIC HEAD SUSPENSION ASSEMBLY FABRICATED WITH INTEGRAL LOAD BEAM AND FLEXURE**

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[21] **Appl. No.:** 42,906

[22] **Filed:** Apr. 3, 1993

**Related U.S. Application Data**

[63] **Continuation-in-part of Ser. No. 958,516, Oct. 7, 1992,**  
abandoned.

[51] **Int. Cl.** ..... G11B 5/60; G11B 5/35;  
G11B 21/21; G11B 21/08

[52] **U.S. Cl.** ..... 360/104; 360/103

[58] **Field of Search** ..... 360/103, 104

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[57] **ABSTRACT**

A magnetic head suspension assembly is fabricated with an integral piece which includes a load beam section, a flexure section, a rear mount section and a leaf spring section between the load beam and rear mount. A tongue extends from the load beam to the flexure and has a down-facing load dimple which contacts the non-air bearing surface of an attached air bearing slider. The flexure includes narrow thin legs adjacent to a cutout that delineates the load beam tongue. The head suspension is characterized by a high first bending mode frequency and low pitch and roll stiffness.

22 Claims, 7 Drawing Sheets

